L Number	Hits	Search Text	DB	Time stamp
1	5	castleberry-tessa-a.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/27 10:25
2	8	lu-bihong.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/27 10:25
3	7	owen-thomas-a.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/27 10:25
4	10	canine same androgen same receptor same protein	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/27 10:26
5	2	wo adj "9711170"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/27 10:26

```
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 NEWS  2           "Ask CAS" for self-help around the clock
 NEWS  3  JAN 27   Source of Registration (SR) information in REGISTRY updated
                   and searchable
 NEWS  4  JAN 27   A new search aid, the Company Name Thesaurus, available in
                   CA/CAplus
 NEWS  5  FEB 05   German (DE) application and patent publication number format
                   changes
 NEWS  6  MAR 03   MEDLINE and LMEDLINE reloaded
 NEWS  7  MAR 03   MEDLINE file segment of TOXCENTER reloaded
 NEWS  8  MAR 03   FRANCEPAT now available on STN
 NEWS  9  MAR 29   Pharmaceutical Substances (PS) now available on STN
 NEWS 10  MAR 29   WPIFV now available on STN
 NEWS 11  MAR 29   New monthly current-awareness alert (SDI) frequency in RAPRA
 NEWS 12  APR 26   PROMT: New display field available
 NEWS 13  APR 26   IFIPAT/IFIUDB/IFICDB: New super search and display field
                   available
 NEWS 14  APR 26   LITALERT now available on STN
 NEWS 15  APR 27   NLDB: New search and display fields available
 NEWS 16  May 10   PROUSDDR now available on STN
 NEWS 17  May 19   PROUSDDR: One FREE connect hour, per account, in both May
                   and June 2004
 NEWS 18  May 12   EXTEND option available in structure searching
 NEWS 19  May 12   Polymer links for the POLYLINK command completed in REGISTRY
 NEWS 20  May 17   FRFULL now available on STN

 NEWS EXPRESS  MARCH 31 CURRENT WINDOWS VERSION IS V7.00A, CURRENT
               MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 26 APRIL 2004
 NEWS HOURS    STN Operating Hours Plus Help Desk Availability
 NEWS INTER    General Internet Information
 NEWS LOGIN    Welcome Banner and News Items
 NEWS PHONE    Direct Dial and Telecommunication Network Access to STN
 NEWS WWW      CAS World Wide Web Site (general information)

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=> s castleberry tessa a/au
L1            8 CASTLEBERRY TESSA A/AU

=> s lu bihong/au
L2           18 LU BIHONG/AU

=> s owen thomas a/au
L3           75 OWEN THOMAS A/AU

=> s canine (s) androgen (s) receptor (s) protein
L4           19 CANINE (S) ANDROGEN (S) RECEPTOR (S) PROTEIN

=> dup rem l4
PROCESSING COMPLETED FOR L4
L5           18 DUP REM L4 (1 DUPLICATE REMOVED)

=> d l5 total ibib

L5   ANSWER 1 OF 18  EMBASE  COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.
     on STN
ACCESSION NUMBER:   2003151948  EMBASE
TITLE:              Androgen and prostatic stroma.
AUTHOR:             Niu Y.-J.; Ma T.-X.; Zhang J.; Xu Y.; Han R.-F.; Sun G.
CORPORATE SOURCE:   Dr. Y.-J. Niu, Department of Prostatic Disease, Tianjin
                    Institute Urologial Surgery, Tianjin Medical University, 23
                    Pingjiang Road, Tianjin 300211, China.
                    niuyj@public.tpt.tj.cn
SOURCE:             Asian Journal of Andrology, (2003) 5/1 (19-26).
                    Refs: 17
                    ISSN: 1008-682X  CODEN: ASJAF8
COUNTRY:            China
DOCUMENT TYPE:      Journal; Article
FILE SEGMENT:       003     Endocrinology
                    028     Urology and Nephrology
LANGUAGE:           English
SUMMARY LANGUAGE:   English

L5   ANSWER 2 OF 18  CAPLUS  COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:        2002:833559  CAPLUS
DOCUMENT NUMBER:         137:346923
TITLE:                   Cloning and characterization of canine androgen
                         receptor
INVENTOR(S):             Castleberry, Tessa A.; Lu, Bihong; Owen, Thomas A.;
                         Smock, Steven L.
PATENT ASSIGNEE(S):      USA
SOURCE:                  U.S. Pat. Appl. Publ., 20 pp.
```

CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002161194	A1	20021031	US 2001-8739	20011109
PRIORITY APPLN. INFO.:			US 2000-247373P P	20001109

L5 ANSWER 3 OF 18 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN
ACCESSION NUMBER: 2001359406 EMBASE
TITLE: Epididymal epithelium immortalized by simian virus 40 large T antigen: A model to study epididymal gene expression.
AUTHOR: Telgmann R.; Brosens J.J.; Kappler-Hanno K.; Ivell R.; Kirchhoff C.
CORPORATE SOURCE: C. Kirchhoff, Inst. Hormon/Fortpflanzungsforschung, Grandweg 64, D-22529 Hamburg, Germany. kirchhoff@ihf.de
SOURCE: Molecular Human Reproduction, (2001) 7/10 (935-945).
Refs: 57
ISSN: 1360-9947 CODEN: MHREFD
COUNTRY: United Kingdom
DOCUMENT TYPE: Journal; Article
FILE SEGMENT: 004 Microbiology
022 Human Genetics
028 Urology and Nephrology
LANGUAGE: English
SUMMARY LANGUAGE: English

L5 ANSWER 4 OF 18 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN DUPLICATE 1
ACCESSION NUMBER: 2001421879 EMBASE
TITLE: Molecular cloning and functional characterization of the canine androgen receptor.
AUTHOR: Lu B.; Smock S.L.; Castleberry T.A.; Owen T.A.
CORPORATE SOURCE: T.A. Owen, Dept. of Cardiovasc./Metabolic Dis., Osteoporosis and Frailty Research, Pfizer Global R and D, Groton, CT 06340, United States
SOURCE: Molecular and Cellular Biochemistry, (2001) 226/1-2 (129-140).
Refs: 34
ISSN: 0300-8177 CODEN: MCBIB8
COUNTRY: Netherlands
DOCUMENT TYPE: Journal; Article
FILE SEGMENT: 003 Endocrinology
028 Urology and Nephrology
029 Clinical Biochemistry
LANGUAGE: English
SUMMARY LANGUAGE: English

L5 ANSWER 5 OF 18 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN
ACCESSION NUMBER: 97137681 EMBASE
DOCUMENT NUMBER: 1997137681
TITLE: Gender-related differences in androgen regulation of thromboxane A2 receptors in rat aortic smooth-muscle cells.
AUTHOR: Higashiura K.; Mathur R.S.; Halushka P.V.
CORPORATE SOURCE: Dr. P.V. Halushka, Division of Clinical Pharmacology, Medical University of South Carolina, 171 Ashley Ave, Charleston, SC 29425, United States
SOURCE: Journal of Cardiovascular Pharmacology, (1997) 29/3 (311-315).

Refs: 35
ISSN: 0160-2446 CODEN: JCPCDT
COUNTRY: United States
DOCUMENT TYPE: Journal; Article
FILE SEGMENT: 018 Cardiovascular Diseases and Cardiovascular Surgery
030 Pharmacology
037 Drug Literature Index
LANGUAGE: English
SUMMARY LANGUAGE: English

L5 ANSWER 6 OF 18 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN
ACCESSION NUMBER: 1998004998 EMBASE
TITLE: Differential effect of keratinocyte growth factor (KGF) on aromatase activity in cultured canine prostatic epithelial cells.
AUTHOR: Canatan H.; Shidaifat F.; Kulp S.K.; Zhang Y.; Chang W.Y.; Brueggemeier R.W.; Lin Y.C.
CORPORATE SOURCE: Y.C. Lin, Reproductive/Molec. Endocrinol. Lab., College of Veterinary Medicine, Ohio State University, 1900 Coffey Road, Columbus, OH 43210-1092, United States. lin.15@osu.edu
SOURCE: Endocrine Research, (1997) 23/4 (311-323).
Refs: 39
ISSN: 0743-5800 CODEN: ENRSE8
COUNTRY: United States
DOCUMENT TYPE: Journal; Article
FILE SEGMENT: 003 Endocrinology
037 Drug Literature Index
LANGUAGE: English
SUMMARY LANGUAGE: English

L5 ANSWER 7 OF 18 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN
ACCESSION NUMBER: 96295806 EMBASE
DOCUMENT NUMBER: 1996295806
TITLE: Body temperature (37 C) specifically down-regulates the messenger ribonucleic acid for the major sperm surface antigen CD52 in epididymal cell culture.
AUTHOR: Pera I.; Ivell R.; Kirchhoff C.
CORPORATE SOURCE: IHF, Grandweg 64,D-22529 Hamburg, Germany
SOURCE: Endocrinology, (1996) 137/10 (4451-4459).
ISSN: 0013-7227 CODEN: ENDOAO
COUNTRY: United States
DOCUMENT TYPE: Journal; Article
FILE SEGMENT: 003 Endocrinology
LANGUAGE: English
SUMMARY LANGUAGE: English

L5 ANSWER 8 OF 18 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN
ACCESSION NUMBER: 93238922 EMBASE
DOCUMENT NUMBER: 1993238922
TITLE: Effect of combination treatment with zanoterone (WIN 49596), a steroidal androgen receptor antagonist, and finasteride (MK-906), a steroidal 5α- reductase inhibitor, on the prostate and testes of beagle dogs.
AUTHOR: Juniewicz P.E.; Hoekstra S.J.; Lemp B.M.; Barbolt T.A.; Devin J.A.; Gauthier E.; Frenette G.; Dube J.Y.; Tremblay R.R.
CORPORATE SOURCE: Department of Oncology, Sterling Winthrop Pharma. Res. Div.,Collegeville, PA 19426, United States
SOURCE: Endocrinology, (1993) 133/2 (904-913).
ISSN: 0013-7227 CODEN: ENDOAO

COUNTRY: United States
DOCUMENT TYPE: Journal; Article
FILE SEGMENT: 003 Endocrinology
028 Urology and Nephrology
030 Pharmacology
037 Drug Literature Index
LANGUAGE: English
SUMMARY LANGUAGE: English

L5 ANSWER 9 OF 18 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN
ACCESSION NUMBER: 92165932 EMBASE
DOCUMENT NUMBER: 1992165932
TITLE: Demonstration of DNA binding factors interacting with a fragment of the canine prostate arginine esterase gene promoter.
AUTHOR: Chapdelaine P.; Guerin S.; Tremblay R.R.; Dube J.Y.
CORPORATE SOURCE: Laboratory of Hormonal Bioregulation, CHUL Research Center, 2705 Laurier Boulevard,Sainte-Foy, Que. G1V 4G2, Canada
SOURCE: FEBS Letters, (1992) 303/2-3 (117-120).
ISSN: 0014-5793 CODEN: FEBLAL
COUNTRY: Netherlands
DOCUMENT TYPE: Journal; Article
FILE SEGMENT: 029 Clinical Biochemistry
LANGUAGE: English
SUMMARY LANGUAGE: English

L5 ANSWER 10 OF 18 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN
ACCESSION NUMBER: 91135999 EMBASE
DOCUMENT NUMBER: 1991135999
TITLE: Radiation-inactivation size of transformed and non-transformed androgen receptor.
AUTHOR: Turcotte G.; Beauregard G.; Potier M.; Chevalier S.
CORPORATE SOURCE: Research Center, Maisonneuve-Rosemont Hospital, University of Montreal, 5415 l'Assomption Boulevard, Montreal, Que. H1T 2M4, Canada
SOURCE: Biochemical Journal, (1991) 275/1 (41-46).
ISSN: 0264-6021 CODEN: BIJOAK
COUNTRY: United Kingdom
DOCUMENT TYPE: Journal; Article
FILE SEGMENT: 028 Urology and Nephrology
029 Clinical Biochemistry
LANGUAGE: English
SUMMARY LANGUAGE: English

L5 ANSWER 11 OF 18 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN
ACCESSION NUMBER: 90349820 EMBASE
DOCUMENT NUMBER: 1990349820
TITLE: Effects of androgen and antiandrogen treatment on canine prostatic arginine esterase.
AUTHOR: Juniewicz P.E.; Barbolt T.A.; Egy M.A.; Frenette G.; Dube J.Y.; Tremblay R.R.
CORPORATE SOURCE: Department of Oncopharmacology, Sterling Research Group, Rensselaer, NY 12144, United States
SOURCE: Prostate, (1990) 17/2 (101-111).
ISSN: 0270-4137 CODEN: PRSTDS
COUNTRY: United States
DOCUMENT TYPE: Journal; Article
FILE SEGMENT: 005 General Pathology and Pathological Anatomy
016 Cancer
028 Urology and Nephrology
029 Clinical Biochemistry

037 Drug Literature Index
LANGUAGE: English
SUMMARY LANGUAGE: English

L5 ANSWER 12 OF 18 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN
ACCESSION NUMBER: 85080251 EMBASE
DOCUMENT NUMBER: 1985080251
TITLE: Quantification of cytosolic steroid receptors in secretory and non-secretory epithelial cells of the canine prostate.
AUTHOR: Lamarre D.; Chevalier S.; McKercher G.; et al.
CORPORATE SOURCE: Endocrine Laboratory, Maisonneuve-Rosemont Hospital Research Center, Montreal, Que. H1T 2M4, Canada
SOURCE: Journal of Steroid Biochemistry, (1985) 22/1 (1-7).
CODEN: JSTBBK
COUNTRY: United Kingdom
DOCUMENT TYPE: Journal
FILE SEGMENT: 029 Clinical Biochemistry
028 Urology and Nephrology
LANGUAGE: English

L5 ANSWER 13 OF 18 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN
ACCESSION NUMBER: 80195746 EMBASE
DOCUMENT NUMBER: 1980195746
TITLE: Detection of an androgen receptor in the canine vas deferens.
AUTHOR: Dupuy G.M.; Boulanger P.; Roberts K.D.; et al.
CORPORATE SOURCE: Dept. Med., Univ. Montreal, Quebec, Canada
SOURCE: Journal of Steroid Biochemistry, (1980) 13/3 (305-309).
CODEN: JSTBBK
COUNTRY: United Kingdom
DOCUMENT TYPE: Journal
FILE SEGMENT: 037 Drug Literature Index
003 Endocrinology
LANGUAGE: English

L5 ANSWER 14 OF 18 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1981:11131 CAPLUS
DOCUMENT NUMBER: 94:11131
TITLE: Androgen and estrogen receptors in the canine prostate
AUTHOR(S): Hawkins, Edward F.; Trachtenberg, John; Hicks, L. Louise; Walsh, Patrick C.
CORPORATE SOURCE: James Buchanan Brady Urol. Inst., Johns Hopkins Hosp., Baltimore, MD, USA
SOURCE: Journal of Andrology (1980), 1(5), 234-43
CODEN: JOAND3; ISSN: 0196-3635
DOCUMENT TYPE: Journal
LANGUAGE: English

L5 ANSWER 15 OF 18 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN
ACCESSION NUMBER: 79225267 EMBASE
DOCUMENT NUMBER: 1979225267
TITLE: The demonstration of oestrogen, androgen and progestagen receptors in the cytosol fraction of canine mammary tumors.
AUTHOR: D'Arville C.N.; Pierrepoint C.G.
CORPORATE SOURCE: Tenovus Inst. Cancer Res., Welsh Nat. Sch. Med., Cardiff, CF4 4XX, United Kingdom
SOURCE: European Journal of Cancer and Clinical Oncology, (1979) 15/6 (875-883).
CODEN: EJCAAH
COUNTRY: United Kingdom
DOCUMENT TYPE: Journal

FILE SEGMENT: 037 Drug Literature Index
016 Cancer
003 Endocrinology
010 Obstetrics and Gynecology
LANGUAGE: English

L5 ANSWER 16 OF 18 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN
ACCESSION NUMBER: 78323994 EMBASE
DOCUMENT NUMBER: 1978323994
TITLE: Androphilic and estrophilic molecules in canine prostate glands.
AUTHOR: Robinette C.L.; Blume C.D.; Mawhinney M.G.
CORPORATE SOURCE: Div. Urol., West Virginia Univ. Med. Cent., Morgantown, W.Va., United States
SOURCE: Investigative Urology, (1978) 15/5 (425-431).
CODEN: INURAQ
COUNTRY: United States
DOCUMENT TYPE: Journal
FILE SEGMENT: 003 Endocrinology
028 Urology and Nephrology
005 General Pathology and Pathological Anatomy
LANGUAGE: English

L5 ANSWER 17 OF 18 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN
ACCESSION NUMBER: 78158929 EMBASE
DOCUMENT NUMBER: 1978158929
TITLE: Identification of limited capacity androgen binding components in nuclear and cytoplasmic fractions of canine prostate.
AUTHOR: Boesel R.W.; Klipper R.W.; Shain S.A.
CORPORATE SOURCE: Tom Slick Mem. Lab., Southwest Found. Res. Educ., San Antonio, Tex. 78284, United States
SOURCE: Endocrine Research Communications, (1977) 4/2 (71-84).
CODEN: EDRCAM
COUNTRY: United States
DOCUMENT TYPE: Journal
FILE SEGMENT: 037 Drug Literature Index
003 Endocrinology
029 Clinical Biochemistry
023 Nuclear Medicine
LANGUAGE: English

L5 ANSWER 18 OF 18 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN
ACCESSION NUMBER: 74047000 EMBASE
DOCUMENT NUMBER: 1974047000
TITLE: Estrogen binding to pancreas.
AUTHOR: Kirdani R.Y.; Sandberg A.A.; Murphy G.P.
CORPORATE SOURCE: Roswell Park Mem. Inst., Buffalo, N.Y., United States
SOURCE: Surgery, (1973) 74/1 (84-90).
CODEN: SURGAZ
DOCUMENT TYPE: Journal
FILE SEGMENT: 003 Endocrinology
023 Nuclear Medicine
LANGUAGE: English

10008739 Results
SEQ ID NO: 2

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	4822	100.0	907	24	ABG74229	Canine Androgen re
2	4346	90.1	895	24	AAE32996	Macaca mulatta and
3	4338	90.0	895	24	AAE32995	Macaca mulatta and
4	4321.5	89.6	918	20	AAY33491	Human androgen rec
5	4321	89.6	919	18	AAW14783	Androgen receptor.
6	4321	89.6	919	21	AAY78914	Human androgen rec
7	4321	89.6	919	23	ABJ05582	Breast cancer-asso
8	4321	89.6	919	23	AAE19061	Human androgen rec
9	4321	89.6	919	24	ABJ19809	Androgen-independe
10	4318	89.5	919	10	AAP90996	Human androgen rec
11	4313	89.4	919	10	AAP93109	Human androgen rec
12	4310.5	89.4	918	12	AAR12223	Human androgen rec
13	4301.5	89.2	902	10	AAP91006	Rat androgen recep
14	4300.5	89.2	902	10	AAP93110	Rat androgen recep
15	4287.5	88.9	902	12	AAR12224	Rat androgen recep

RESULT 4
AAY33491
ID AAY33491 standard; Protein; 918 AA.
XX
AC AAY33491;
XX
DT 19-JAN-2000 (first entry)
XX
DE Human androgen receptor protein.
XX
KW Proapoptotic; dependence domain; p75NTR; androgen receptor; DCC;
KW huntingtin polypeptide; Machado-Joseph disease; SCA1; SCA2; SCA6;
KW atrophin-1; cell death; apoptosis; Huntington's disease; head trauma;
KW Alzheimer's disease; Kennedy's disease; spinocerebellar ataxia; stroke;
KW dentatorubropallidoluysian atrophy; cell proliferation; cell survival;
KW neoplastic; malignant; autoimmune; fibrotic.
XX
OS Homo sapiens.
XX
PN WO9945944-A1.
XX
PD 16-SEP-1999.
XX
PF 11-MAR-1999; 99WO-US05250.
XX
PR 12-MAR-1998; 98US-0041886.
XX
PA (BURN-) BURNHAM INST.
XX
PI Bredesen DE, Rabizadeh S;
XX
DR WPI; 1999-561617/47.
DR N-PSDB; AAZ23424.
XX
PT New proapoptotic dependence peptides, used to develop products for
PT treating, e.g. Alzheimer's disease -
XX
PS Disclosure; Page 90-93; 199pp; English.
XX
CC This invention describes novel pure proapoptotic dependence peptides
CC which comprise a sequence of an active dependence domain selected from
CC dependence polypeptides consisting of p75NTR, androgen receptor, DCC,
CC huntingtin polypeptide, Machado-Joseph disease gene product, SCA1, SCA2,
CC SCA6 and atrophin-1 polypeptide. The proapoptotic peptides are capable
CC of inducing cell death and can be used to develop products to mediate or
CC inhibit apoptosis. The methods can be used for reducing the severity of
CC a proapoptotic dependence domain mediated pathological conditions e.g.

CC Huntington's disease, Alzheimer's disease, Kennedy's disease,
CC Spinocerebellar ataxias, dentatorubropallidoluysian atrophy,
CC Machado-Joseph disease, stroke or head trauma. They can also be used for
CC reducing the severity of a pathological condition mediated by upregulated
CC cell proliferation or cell survival e.g. neoplastic, malignant,
CC autoimmune or fibrotic conditions. This sequence represents a human
CC androgen receptor described in the method of the invention.
XX
SQ Sequence 918 AA;

Query Match 89.6%; Score 4321.5; DB 20; Length 918;
Best Local Similarity 87.7%; Pred. No. 2.9e-284;
Matches 822; Conservative 20; Mismatches 46; Indels 49; Gaps 5;

```
Qy          1 MEVQLGLGRVYPRPPSKTYRGAFQNLFQSVREVIQNPGPRHPEAVSAAPPGAHL------ 54
              |||||||||||||||||||||||||||||||||||||||||||||||||| ||||||| |
Db          1 MEVQLGLGRVYPRPPSKTYRGAFQNLFQSVREVIQNPGPRHPEAASAAPPGASLLLLQQQ 60

Qy         55 ----QQQQQQQQQQETSPRQQQQQQQQGDDGSPQAQSRGPTGYLALDEEQQPSQQRSASKG 110
                  ||||||||||||||| |||||||:||||||  ||||||| ||||||||| :|| :
Db         61 QQQQQQQQQQQQQQETSPR-QQQQQQGEDGSPQAHRRGPTGYLVLDEEQQPSQPQSALEC 119

Qy        111 HPESACVPEPGVTSATGKGLQQQQPAPPDENDSAAPSTLSLLGPTFPGLSSCSTDLKDIL 170
              |||  ||||||   |  ||| || ||||||:|||||||||||||||||||||| ||||||
Db        120 HPERGCVPEPGAAVAASKGLPQQLPAPPDEDDSAAPSTLSLLGPTFPGLSSCSADLKDIL 179

Qy        171 SEAGTMQLLQQQRQQQQQQQQQQQQQQQQQQQEVVSEGSSSGRAREAAGASTSSKDSYLG 230
              ||| |||||                  |||||| |||||||||||||:|| |||||:|||
Db        180 SEASTMQLL-----------------QQQQQEAVSEGSSSGRAREASGAPTSSKDNYLG 221

Qy        231 GSSTISDSAKELCKAVSVSMGLGVEALEHLSPGEQLRGDCMYAPLLGGPPAVR--PCAPL 288
              |:|||||:||||||||||||||||||||||||||||||||||||||||||| |||||  |||||
Db        222 GTSTISDNAKELCKAVSVSMGLGVEALEHLSPGEQLRGDCMYAPLLGVPPAVRPTPCAPL 281

Qy        289 AECKGSLLDDGPGKGTEETAEYSPFKAGYAKGLDGDSLGCSSSSEAGGSGTLEMPSTLSL 348
              ||||||||||  || ||:|||||||| || |||:|:||||| |: || |||||:||||||
Db        282 AECKGSLLDDSAGKSTEDTAEYSPFKGGYTKGLEGESLGCSGSAAAGSSGTLELPSTLSL 341

Qy        349 YKSGALDEAAAYQSRDYYNFPLSLGGPPPHPPPPHPHTRIKLENPLDYGSAWAAAAAQCR 408
              ||||||||||||||||||||:| |||| ||||||| |||||||||||||||||||||||
Db        342 YKSGALDEAAAYQSRDYYNFPLALAGPPPPPPPPHPHARIKLENPLDYGSAWAAAAAQCR 401

Qy        409 YGDLASLHGAGAAGPSSGSPSATTSSSWHTLFTAEEGQLYGPCGGSGGGSAGDGG----- 463
              |||||||||||||| ||||||  |||||||||||||||||||| |||  | ||
Db        402 YGDLASLHGAGAAGPGSGSPSAAASSSWHTLFTAEEGQLYGPCGGGGGGGGGGGGGGGGG 461

Qy        464 -------------SVAPYGYTRPPQGLAGQEGDFPPPDVWYPGGVVSRVPFPSPSCVKSE 510
                          :|||||||||||||||  ||  |||||||:|||||:|||:|||||
Db        462 GGGGGGGGGGEAEAVAPYGYTRPPQGLAGQESDFTAPDVWYPGGMVSRVPYPSPTCVKSE 521

Qy        511 MGSWMESYSGPYGDMRLETARDHVLPIDYYFPPQKTCLICGDEASGCHYGALTCGSCKVF 570
              || ||:||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        522 MGPWMDSYSGPYGDMRLETARDHVLPIDYYFPPQKTCLICGDEASGCHYGALTCGSCKVF 581

Qy        571 FKRAAEGKQKYLCASRNDCTIDKFRRKNCPSCRLRKCYEAGMTLGARKLKKLGNLKLQEE 630
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        582 FKRAAEGKQKYLCASRNDCTIDKFRRKNCPSCRLRKCYEAGMTLGARKLKKLGNLKLQEE 641

Qy        631 GEASNVTSPTEEPTQKLTVSHIEGYECQPIFLNVLEAIEPGVVCAGHDNNQPDSFAALLS 690
              ||||: |||||| ||||||||||||||||||||||||||||||||||||||||||||||||
Db        642 GEASSTTSPTEETTQKLTVSHIEGYECQPIFLNVLEAIEPGVVCAGHDNNQPDSFAALLS 701

Qy        691 SLNELGERQLVHVVKWAKALPGFRNLHVDDQMAVIQYSWMGLMVFAMGWRSFTNVNSRML 750
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        702 SLNELGERQLVHVVKWAKALPGFRNLHVDDQMAVIQYSWMGLMVFAMGWRSFTNVNSRML 761

Qy        751 YFAPDLVFNEYRMHKSRMYSQCVRMRHLSQEFGWLQITPQEFLCMKALLLFSIIPVDGLK 810
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        762 YFAPDLVFNEYRMHKSRMYSQCVRMRHLSQEFGWLQITPQEFLCMKALLLFSIIPVDGLK 821

Qy        811 NQKFFDELRMNYIKELDRIIACKRKNPTSCSRRFYQLTKLLDSVQPIARELHQFTFDLLI 870
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                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        822 NQKFFDELRMNYIKELDRIIACKRKNPTSCSRRFYQLTKLLDSVQPIARELHQFTFDLLI 881

Qy        871 KSHMVSVDFPEMMAEIISVQVPKILSGKVKPIYFHTQ 907
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Db        882 KSHMVSVDFPEMMAEIISVQVPKILSGKVKPIYFHTQ 918


RESULT 5
AAW14783
ID   AAW14783 standard; Protein; 919 AA.
XX
AC   AAW14783;
XX
DT   22-JUN-1997  (first entry)
XX
DE   Androgen receptor.
XX
KW   Androgen receptor; acidic fibroblast growth factor; aFGF;
KW   antisense; benign prostatic hyperplasia; prostate cancer; therapy.
XX
OS   Homo sapiens.
XX
PN   WO9711170-A1.
XX
PD   27-MAR-1997.
XX
PF   20-SEP-1996;   96WO-US15081.
XX
PR   20-SEP-1995;   95US-0004018.
XX
PA   (WORC-) WORCESTER FOUND BIOMEDICAL RES.
XX
PI   Zamecnik PA;
XX
DR   WPI; 1997-202879/18.
DR   N-PSDB; AAT63407.
XX
PT   Oligonucleotide(s) antisense to human androgen receptor and acidic
PT   FGF genes - used to inhibit gene expression, for the treatment of
PT   benign prostatic hyperplasia
XX
PS   Disclosure; Page 22-28; 51pp; English.
XX
CC   Human androgen receptor (AAW14783) binds testosterone and, acting
CC   at the transcriptional level, regulates the growth of normal
CC   prostatic cells.  Antisense oligonucleotides (see also AAT63200,
CC   AAT63404-05) based on an androgen receptor cDNA clone (see also
CC   AAT63407) can be used to prevent androgen receptor gene expression,
CC   thereby inhibiting the growth or survival of prostatic cells for
CC   the treatment of benign prostatic hyperplasia and prostate cancer.
XX
SQ   Sequence   919 AA;

  Query Match             89.6%;  Score 4321;  DB 18;  Length 919;
  Best Local Similarity   87.6%;  Pred. No. 3.2e-284;
  Matches  822;  Conservative   20;  Mismatches   46;  Indels   50;  Gaps    5;

Qy          1 MEVQLGLGRVYPRPPSKTYRGAFQNLFQSVREVIQNPGPRHPEAVSAAPPGAHL------ 54
              |||||||||||||||||||||||||||||||||||||||||||| ||||||| |
Db          1 MEVQLGLGRVYPRPPSKTYRGAFQNLFQSVREVIQNPGPRHPEAASAAPPGASLLLLQQQ 60

Qy         55 --------QQQQQQQQQQETSPRQQQQQQQQGDDGSPQAQSRGPTGYLALDEEQQPSQQRS 106
                      |||||||||||||| |||||||:||||||  ||||||| |||||||||| :|
Db         61 QQQQQQQQQQQQQQQQQQQETSPR-QQQQQQGEDGSPQAHRRGPTGYLVLDEEQQPSQPQS 119

Qy        107 ASKGHPESACVPEPGVTSATGKGLQQQQPAPPDENDSAAPSTLSLLGPTFPGLSSCSTDL 166
              | : |||  ||||||   |  ||| || |||||:|||||||||||||||||||||| ||
Db        120 ALECHPERGCVPEPGAAVAASKGLPQQLPAPPDEDDSAAPSTLSLLGPTFPGLSSCSADL 179

Qy        167 KDILSEAGTMQLLQQQRQQQQQQQQQQQQQQQQQQQEVVSEGSSSGRAREAAGASTSSKD 226
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                |||||||  |||||                  ||||||  |||||||||||||:||  |||||
Db        180 KDILSEASTMQLL-----------------QQQQQEAVSEGSSSGRAREASGAPTSSKD 221

Qy        227 SYLGGSSTISDSAKELCKAVSVSMGLGVEALEHLSPGEQLRGDCMYAPLLGGPPAVR--P 284
                :||||:||||||:||||||||||||||||||||||||||||||||||||||||  |||||  |
Db        222 NYLGGTSTISDNAKELCKAVSVSMGLGVEALEHLSPGEQLRGDCMYAPLLGVPPAVRPTP 281

Qy        285 CAPLAECKGSLLDDGPGKGTEETAEYSPFKAGYAKGLDGDSLGCSSSSEAGGSGTLEMPS 344
                |||||||||||||||  || ||:|||||||| || |||:|:|||||  |: || |||||:||
Db        282 CAPLAECKGSLLDDSAGKSTEDTAEYSPFKGGYTKGLEGESLGCSGSAAAGSSGTLELPS 341

Qy        345 TLSLYKSGALDEAAAYQSRDYYNFPLSLGGPPPHPPPPHPHTRIKLENPLDYGSAWAAAA 404
                |||||||||||||||||||||||||:| |||| |||||||  ||||||||||||||||||
Db        342 TLSLYKSGALDEAAAYQSRDYYNFPLALAGPPPPPPPPHPHARIKLENPLDYGSAWAAAA 401

Qy        405 AQCRYGDLASLHGAGAAGPSSGSPSATTSSSWHTLFTAEEGQLYGPCGGSGGGSAGDG-- 462
                |||||||||||||||||| ||||||  |||||||||||||||||||||| |||  | |
Db        402 AQCRYGDLASLHGAGAAGPGSGSPSAAASSSWHTLFTAEEGQLYGPCGGGGGGGGGGGGG 461

Qy        463 -------------GSVAPYGYTRPPQGLAGQEGDFPPPDVWYPGGVVSRVPFPSPSCVKS 509
                          |:|||||||||||||||| ||  ||||||||:|||||:|||:||||
Db        462 GGGGGGGGGGGGEAGAVAPYGYTRPPQGLAGQESDFTAPDVWYPGGMVSRVPYPSPTCVKS 521

Qy        510 EMGSWMESYSGPYGDMRLETARDHVLPIDYYFPPQKTCLICGDEASGCHYGALTCGSCKV 569
                ||| ||:||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        522 EMGPWMDSYSGPYGDMRLETARDHVLPIDYYFPPQKTCLICGDEASGCHYGALTCGSCKV 581

Qy        570 FFKRAAEGKQKYLCASRNDCTIDKFRRKNCPSCRLRKCYEAGMTLGARKLKKLGNLKLQE 629
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Db        582 FFKRAAEGKQKYLCASRNDCTIDKFRRKNCPSCRLRKCYEAGMTLGARKLKKLGNLKLQE 641

Qy        630 EGEASNVTSPTEEPTQKLTVSHIEGYECQPIFLNVLEAIEPGVVCAGHDNNQPDSFAALL 689
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Db        642 EGEASSTTSPTEETTQKLTVSHIEGYECQPIFLNVLEAIEPGVVCAGHDNNQPDSFAALL 701

Qy        690 SSLNELGERQLVHVVKWAKALPGFRNLHVDDQMAVIQYSWMGLMVFAMGWRSFTNVNSRM 749
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        702 SSLNELGERQLVHVVKWAKALPGFRNLHVDDQMAVIQYSWMGLMVFAMGWRSFTNVNSRM 761

Qy        750 LYFAPDLVFNEYRMHKSRMYSQCVRMRHLSQEFGWLQITPQEFLCMKALLLFSIIPVDGL 809
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        762 LYFAPDLVFNEYRMHKSRMYSQCVRMRHLSQEFGWLQITPQEFLCMKALLLFSIIPVDGL 821

Qy        810 KNQKFFDELRMNYIKELDRIIACKRKNPTSCSRRFYQLTKLLDSVQPIARELHQFTFDLL 869
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        822 KNQKFFDELRMNYIKELDRIIACKRKNPTSCSRRFYQLTKLLDSVQPIARELHQFTFDLL 881

Qy        870 IKSHMVSVDFPEMMAEIISVQVPKILSGKVKPIYFHTQ 907
                |||||||||||||||||||||||||||||||||||||
Db        882 IKSHMVSVDFPEMMAEIISVQVPKILSGKVKPIYFHTQ 919
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SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	4321.5	89.6	918	3	US-09-041-886-11	Sequence 11, Appl
2	2354	48.8	452	3	US-08-764-870-16	Sequence 16, Appl
3	2354	48.8	452	3	US-08-980-115-16	Sequence 16, Appl
4	1274	26.4	933	3	US-08-764-870-14	Sequence 14, Appl
5	1274	26.4	933	3	US-08-980-115-14	Sequence 14, Appl
6	1130	23.4	363	6	5223606-6	Patent No. 5223606
7	1116	23.1	984	3	US-08-764-870-15	Sequence 15, Appl
8	1116	23.1	984	3	US-08-980-115-15	Sequence 15, Appl
9	1091.5	22.6	1070	4	US-09-091-042A-2	Sequence 2, Appli
10	1088	22.6	795	1	US-07-716-827C-5	Sequence 5, Appli
11	1028.5	21.3	777	3	US-08-764-870-13	Sequence 13, Appl
12	1028.5	21.3	777	3	US-08-980-115-13	Sequence 13, Appl
13	952.5	19.8	356	6	5223606-7	Patent No. 5223606
14	644.5	13.4	534	3	US-08-875-223-8	Sequence 8, Appli

15 643 13.3 284 2 US-08-592-214A-24 Sequence 24, Appl

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RESULT 1
US-09-041-886-11
; Sequence 11, Application US/09041886
; Patent No. 6235872
;  GENERAL INFORMATION:
;    APPLICANT:  Bredesen, Dale E.
;    APPLICANT:  Rabizadeh, Sharroz
;    TITLE OF INVENTION:  Proapoptotic Peptides, Dependence
;    TITLE OF INVENTION:  Polypeptides and Methods of Use
;    NUMBER OF SEQUENCES:  72
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Campbell & Flores LLP
;      STREET:  4370 La Jolla Village Drive, Suite 700
;      CITY:  San Diego
;      STATE:  California
;      COUNTRY:  United States
;      ZIP:  92122
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/041,886
;      FILING DATE:
;      CLASSIFICATION:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Campbell, Cathryn A.
;      REGISTRATION NUMBER:  31,815
;      REFERENCE/DOCKET NUMBER:  P-LJ 2626
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (619) 535-9001
;      TELEFAX:  (619) 535-8949
;  INFORMATION FOR SEQ ID NO:  11:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  918 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-09-041-886-11

  Query Match             89.6%;  Score 4321.5;  DB 3;  Length 918;
  Best Local Similarity   87.7%;  Pred. No. 0;
  Matches  822;  Conservative   20;  Mismatches   46;  Indels   49;  Gaps    5;

Qy          1 MEVQLGLGRVYPRPPSKTYRGAFQNLFQSVREVIQNPGPRHPEAVSAAPPGAHL------ 54
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Db          1 MEVQLGLGRVYPRPPSKTYRGAFQNLFQSVREVIQNPGPRHPEAASAAPPGASLLLLQQQ 60

Qy         55 ----QQQQQQQQQQETSPRQQQQQQQQGDDGSPQAQSRGPTGYLALDEEQQPSQQRSASKG 110
                   ||||||||||||||| |||||||:||||||  ||||||| |||||||| :|| :
Db         61 QQQQQQQQQQQQQQETSPR-QQQQQQQGEDGSPQAHRRGPTGYLVLDEEQQPSQPQSALEC 119

Qy        111 HPESACVPEPGVTSATGKGLQQQQPAPPDENDSAAPSTLSLLGPTFPGLSSCSTDLKDIL 170
              |||  ||||||   |  ||| || ||||||:||||||||||||||||||||| ||||||
Db        120 HPERGCVPEPGAAVAASKGLPQQLPAPPDEDDSAAPSTLSLLGPTFPGLSSCSADLKDIL 179

Qy        171 SEAGTMQLLQQQRQQQQQQQQQQQQQQQQQQQEVVSEGSSSGRAREAAGASTSSKDSYLG 230
              ||| |||||                  |||||| ||||||||||||:|| |||||:|||
Db        180 SEASTMQLL-----------------QQQQQEAVSEGSSSGRAREASGAPTSSKDNYLG 221

Qy        231 GSSTISDSAKELCKAVSVSMGLGVEALEHLSPGEQLRGDCMYAPLLGGPPAVR--PCAPL 288
              |:||||:|||||||||||||||||||||||||||||||||||| |||||  |||||
Db        222 GTSTISDNAKELCKAVSVSMGLGVEALEHLSPGEQLRGDCMYAPLLGVPPAVRPTPCAPL 281

Qy        289 AECKGSLLDDGPGKGTEETAEYSPFKAGYAKGLDGDSLGCSSSSEAGGSGTLEMPSTLSL 348
              |||||||||  || ||:|||||||| || |||:|:||||| |: || |||||:||||||
Db        282 AECKGSLLDDSAGKSTEDTAEYSPFKGGYTKGLEGESLGCSGSAAAGSSGTLELPSTLSL 341
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Qy        349 YKSGALDEAAAYQSRDYYNFPLSLGGPPPHPPPPHPHTRIKLENPLDYGSAWAAAAAQCR 408
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Qy        409 YGDLASLHGAGAAGPSSGSPSATTSSSWHTLFTAEEGQLYGPCGGSGGGSAGDGG----- 463
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Qy        464 -------------SVAPYGYTRPPQGLAGQEGDFPPPDVWYPGGVVSRVPFPSPSCVKSE 510
                          :|||||||||||||||| ||  ||||||||:|||||:|||:|||||
Db        462 GGGGGGGGGGEAEAVAPYGYTRPPQGLAGQESDFTAPDVWYPGGMVSRVPYPSPTCVKSE 521

Qy        511 MGSWMESYSGPYGDMRLETARDHVLPIDYYFPPQKTCLICGDEASGCHYGALTCGSCKVF 570
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Db        522 MGPWMDSYSGPYGDMRLETARDHVLPIDYYFPPQKTCLICGDEASGCHYGALTCGSCKVF 581

Qy        571 FKRAAEGKQKYLCASRNDCTIDKFRRKNCPSCRLRKCYEAGMTLGARKLKKLGNLKLQEE 630
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Db        582 FKRAAEGKQKYLCASRNDCTIDKFRRKNCPSCRLRKCYEAGMTLGARKLKKLGNLKLQEE 641

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Qy        691 SLNELGERQLVHVVKWAKALPGFRNLHVDDQMAVIQYSWMGLMVFAMGWRSFTNVNSRML 750
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Db        762 YFAPDLVFNEYRMHKSRMYSQCVRMRHLSQEFGWLQITPQEFLCMKALLLFSIIPVDGLK 821

Qy        811 NQKFFDELRMNYIKELDRIIACKRKNPTSCSRRFYQLTKLLDSVQPIARELHQFTFDLLI 870
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Db        822 NQKFFDELRMNYIKELDRIIACKRKNPTSCSRRFYQLTKLLDSVQPIARELHQFTFDLLI 881

Qy        871 KSHMVSVDFPEMMAEIISVQVPKILSGKVKPIYFHTQ 907
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Db        882 KSHMVSVDFPEMMAEIISVQVPKILSGKVKPIYFHTQ 918
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RESULT 6
5223606-6
;Patent No. 5223606
;    APPLICANT:  BLAUDIN DE THE, HUGHES;MARCHIO, AGNES;TIOLLAIS,
;PIERRE;DEJEAN, ANNE
;    TITLE OF INVENTION: STEROID/THYROID HORMONE RECEPTOR-RELATED
;PROTEIN INAPPROPRIATELY EXPRESSED IN HUMAN HEPATOCELLULAR CARCINOMA
;    NUMBER OF SEQUENCES: 11
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/134,130
;      FILING DATE: 17-DEC-1987
;    PRIOR APPLICATION DATA:
;SEQ ID NO:6:
;      LENGTH: 363
5223606-6

  Query Match             23.4%;  Score 1130;  DB 6;  Length 363;
  Best Local Similarity   56.2%;  Pred. No. 1e-81;
  Matches  203;  Conservative   72;  Mismatches   84;  Indels    2;  Gaps    1;

Qy        547 CLICGDEASGCHYGALTCGSCKVFFKRAAEGKQKYLCASRNDCTIDKFRRKNCPSCRLRK 606
              |||||||||||||| |||||||||||||  ||:  |||| |||| :|| |||||||:|||||
Db          1 CLICGDEASGCHYGVLTCGSCKVFFKRAMEGQHNYLCAGRNDCIVDKIRRKNCPACRLRK 60

Qy        607 CYEAGMTLGARKLKKLGNLKLQEEGEASNVTSPTEEP--TQKLTVSHIEGYECQPIFLNV 664
              | :||| || || ||   :::    :|  : :|   |  :|::| |  :  :  |  :|:
Db         61 CCQAGMVLGGRKFKKFNKVRVMRALDAVALPAPVGIPNESQRITFSPSQEIQLIPPLINL 120

Qy        665 LEAIEPGVVCAGHDNNQPDSFAALLSSLNELGERQLVHVVKWAKALPGFRNLHVDDQMAV 724
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Db        121 LMSIEPDVIYAGHDNTKPDTSSSLLTSLNQLGERQLLSVVKWSKSLPGFRNLHIDDQITL 180

Qy        725 IQYSWMGLMVFAMGWRSFTNVNSRMLYFAPDLVFNEYRMHKSRMYSQCVRMRHLSQEFGW 784
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Db        181 IQYSWMSLMVFGLGWRSYKHVSGQMLYFAPDLILNEQRMKESSFYSLCLTMWQIPQEFVK 240

Qy        785 LQITPQEFLCMKALLLFSIIPVDGLKNQKFFDELRMNYIKELDRIIACKRKNPTSCSRRF 844
                ||:: :|||||| ||| : ||::||::|  |:|:| :||:|| : |  ::|   | |:||
Db        241 LQVSQEEFLCMKVLLLLNTIPLEGLRSQSQFEEMRSSYIRELIKAIGLRQKGVVSSSQRF 300

Qy        845 YQLTKLLDSVQPIARELHQFTFDLLIKSHMVSVDFPEMMAEIISVQVPKILSGKVKPIYF 904
                ||||||||::  : ::|| :  :  |:|  :||:|||||:|:|: |:||||:| |||: |
Db        301 YQLTKLLDNLHDLVKQLHLYCLNTFIQSRALSVEFPEMMSEVIAAQLPKILAGMVKPLLF 360

Qy        905 H 905
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Db        361 H 361
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SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	4321	89.6	919	2	A39248	androgen receptor
2	4311.5	89.4	910	2	A34721	androgen receptor
3	4306.5	89.3	902	2	B40494	androgen receptor
4	4276	88.7	911	2	B34721	androgen receptor
5	4251	88.2	899	2	A35895	androgen receptor
6	1670	34.6	344	2	I51330	androgen receptor
7	1527	31.7	848	2	JG0194	androgen receptor
8	1272	26.4	933	1	QRHUP	progesterone recep
9	1232.5	25.6	930	2	A25923	progesterone recep
10	1231	25.5	923	2	I53280	progesterone recep
11	1227.5	25.5	786	2	A35466	progesterone recep
12	1211	25.1	923	2	A39596	progesterone recep
13	1118.5	23.2	981	2	A41401	mineralocorticoid
14	1116	23.1	984	2	A29513	mineralocorticoid
15	1088	22.6	795	1	QRRTG	glucocorticoid rec

RESULT 1
A39248
androgen receptor - human
C;Species: Homo sapiens (man)
C;Date: 04-Oct-1991 #sequence_revision 04-Oct-1991 #text_change 24-Nov-1999
C;Accession: A39248; A30328; A40109; A60946; A34942; A27653; A40108; A40494; A32224; A40715; A37124
R;Lubahn, D.B.; Brown, T.R.; Simental, J.A.; Higgs, H.N.; Migeon, C.J.; Wilson, E.M.; French, F.S.
Proc. Natl. Acad. Sci. U.S.A. 86, 9534-9538, 1989
A;Title: Sequence of the intron/exon junctions of the coding region of the human androgen receptor gene and identification of a point mutation in a family with complete androgen insensitivity.
A;Reference number: A39248; MUID:90083302; PMID:2594783
A;Accession: A39248
A;Molecule type: DNA
A;Residues: 1-919 <LUB>
A;Cross-references: GB:M27423; GB:M27430; NID:g178904; PIDN:AAA51886.1; PID:g178906
R;Faber, P.W.; Kuiper, G.G.J.M.; van Rooij, H.C.J.; van der Korput, J.A.G.M.; Brinkmann, A.O.; Trapman, J.
Mol. Cell. Endocrinol. 61, 257-262, 1989
A;Title: The N-terminal domain of the human androgen receptor is encoded by one, large exon.
A;Reference number: A30328; MUID:89137730; PMID:2917688
A;Accession: A30328
A;Molecule type: DNA
A;Residues: 1-77,79-165,'A',167-389,'L',391-464,473-538 <FAB>
A;Cross-references: GB:M20260
R;Lubahn, D.B.; Joseph, D.R.; Sullivan, P.M.; Willard, H.F.; French, F.S.; Wilson, E.M.

Science 240, 327-330, 1988
A;Title: Cloning of human androgen receptor complementary DNA and localization to the X chromosome.
A;Reference number: A40109; MUID:88178112; PMID:3353727
A;Accession: A40109
A;Molecule type: DNA
A;Residues: 559-624 <LU2>
A;Cross-references: GB:M20132
R;Kuiper, G.G.J.M.; Faber, P.W.; van Rooij, H.C.J.; van der Korput, J.A.G.M.; Ris-Stalpers, C.; Klaassen, P.; Trapman, J.; Brinkmann, A.O.
J. Mol. Endocrinol. 2, R1-R4, 1989
A;Title: Structural organization of the human androgen receptor gene.
A;Reference number: A60946; MUID:89322749; PMID:2546571
A;Accession: A60946
A;Molecule type: DNA
A;Residues: 536-540;587-591;626-631;723-726;770-774;814-818;867-870 <KUI>
R;Lubahn, D.B.; Joseph, D.R.; Sar, M.; Tan, J.; Higgs, H.N.; Larson, R.E.; French, F.S.; Wilson, E.M.
Mol. Endocrinol. 2, 1265-1275, 1988
A;Title: The human androgen receptor: complementary deoxyribonucleic acid cloning, sequence analysis and gene expression in prostate.
A;Reference number: A34942; MUID:89112208; PMID:3216866
A;Accession: A34942
A;Molecule type: mRNA
A;Residues: 1-919 <LU3>
A;Cross-references: GB:M20132; NID:g178627; PIDN:AAA51729.1; PID:g178628; GB:J03180
R;Trapman, J.; Klaassen, P.; Kuiper, G.G.J.M.; van der Korput, J.A.G.M.; Faber, P.W.; van Rooij, H.C.J.; van Kessel, A.G.; Voorhorst, M.M.; Mulder, E.; Brinkmann, A.O.
Biochem. Biophys. Res. Commun. 153, 241-248, 1988
A;Title: Cloning, structure and expression of a cDNA encoding the human androgen receptor.
A;Reference number: A27653; MUID:88240407; PMID:3377788
A;Accession: A27653
A;Molecule type: mRNA
A;Residues: 468-564,'K',566-919 <TRA>
A;Cross-references: GB:M20260; NID:g178891; PIDN:AAA51774.1; PID:g178892
A;Note: the authors translated the codon AAG for residue 565 as Glu
R;Chang, C.; Kokontis, J.; Liao, S.
Science 240, 324-326, 1988
A;Title: Molecular cloning of human and rat complementary DNA encoding androgen receptors.
A;Reference number: A40108; MUID:88178111; PMID:3353726
A;Accession: A40108
A;Molecule type: mRNA
A;Residues: 557-628 <CHA>
A;Cross-references: GB:M18624
R;Chang, C.; Kokontis, J.; Liao, S.
Proc. Natl. Acad. Sci. U.S.A. 85, 7211-7215, 1988
A;Title: Structural analysis of complementary DNA and amino acid sequences of human and rat androgen receptors.
A;Reference number: A40494; MUID:89017168; PMID:3174628
A;Accession: A40494
A;Molecule type: mRNA
A;Residues: 1-74,79-89,'H',90-472,'GGG',473-474,'E',476-644,'N',646-919 <CH2>
A;Cross-references: GB:M23263
R;Tilley, W.D.; Marcelli, M.; Wilson, J.D.; McPhaul, M.J.
Proc. Natl. Acad. Sci. U.S.A. 86, 327-331, 1989
A;Title: Characterization and expression of a cDNA encoding the human androgen receptor.
A;Reference number: A32224; MUID:89098909; PMID:2911578
A;Accession: A32224
A;Molecule type: mRNA
A;Residues: 1-77,79-211,'R',213-471,473-919 <TIL>
A;Cross-references: GB:M21748; GB:J04150; NID:g178871; PIDN:AAA51771.1; PID:g178872
R;Mowszowicz, I.; Lee, H.J.; Chen, H.T.; Mestayer, C.; Portois, M.C.; Cabrol, S.; Mauvais-Jarvis, P.; Chang, C.
Mol. Endocrinol. 7, 861-869, 1993
A;Title: A point mutation in the second zinc finger of the DNA-binding domain of the androgen receptor gene causes complete androgen insensitivity in two siblings with receptor-positive androgen resistance.
A;Reference number: A40715; MUID:94019395; PMID:8413310
A;Accession: A40715

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A;Status: not compared with conceptual translation
A;Molecule type: DNA
A;Residues: 557-614,'H',616-624 <MOW>
A;Cross-references: PIDN:AAB28340.1; PID:g425580
C;Genetics:
A;Gene: GDB:AR
A;Cross-references: GDB:120556; OMIM:313700
A;Map position: Xq11-Xq12
A;Introns: 538/2; 589/1; 628/1; 724/1; 772/2; 816/1; 868/3
C;Superfamily: unassigned erbA-related proteins; erbA transforming protein homology
C;Keywords: DNA binding; steroid binding; transcription regulation; zinc finger
F;557-815/Domain: erbA transforming protein homology <ERBA>
F;559-579/Region: zinc finger
F;595-619/Region: zinc finger

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Qy          1 MEVQLGLGRVYPRPPSKTYRGAFQNLFQSVREVIQNPGPRHPEAVSAAPPGAHL------ 54
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Db          1 MEVQLGLGRVYPRPPSKTYRGAFQNLFQSVREVIQNPGPRHPEAASAAPPGASLLLLQQQ 60

Qy         55 --------QQQQQQQQQQETSPRQQQQQQQQGDDGSPQAQSRGPTGYLALDEEQQPSQQRS 106
                      |||||||||||||||| |||||||:||||||  |||||||| ||||||||| :|
Db         61 QQQQQQQQQQQQQQQQQQQETSPR-QQQQQQQGEDGSPQAHRRGPTGYLVLDEEQQPSQPQS 119

Qy        107 ASKGHPESACVPEPGVTSATGKGLQQQQPAPPDENDSAAPSTLSLLGPTFPGLSSCSTDL 166
              | : |||  ||||||   |  ||| || ||||||:|||||||||||||||||||||| ||
Db        120 ALECHPERGCVPEPGAAVAASKGLPQQLPAPPDEDDSAAPSTLSLLGPTFPGLSSCSADL 179

Qy        167 KDILSEAGTMQLLQQQRQQQQQQQQQQQQQQQQQQQEVVSEGSSSGRAREAAGASTSSKD 226
              ||||||| |||||                    |||||||||||||||:|| |||||
Db        180 KDILSEASTMQLL------------------QQQQQEAVSEGSSSGRAREASGAPTSSKD 221

Qy        227 SYLGGSSTISDSAKELCKAVSVSMGLGVEALEHLSPGEQLRGDCMYAPLLGGPPAVR--P 284
              :||||:|||||:|||||||||||||||||||||||||||||||||||||||||| |||||  |
Db        222 NYLGGTSTISDNAKELCKAVSVSMGLGVEALEHLSPGEQLRGDCMYAPLLGVPPAVRPTP 281

Qy        285 CAPLAECKGSLLDDGPGKGTEETAEYSPFKAGYAKGLDGDSLGCSSSSEAGGSGTLEMPS 344
              |||||||||||||  || ||:|||||||| || |||:|:|||||  |: || |||||:||
Db        282 CAPLAECKGSLLDDSAGKSTEDTAEYSPFKGGYTKGLEGESLGCSGSAAAGSSGTLELPS 341

Qy        345 TLSLYKSGALDEAAAYQSRDYYNFPLSLGGPPPHPPPPHPHTRIKLENPLDYGSAWAAAA 404
              |||||||||||||||||||||||||:| |||| ||||||| ||||||||||||||||||
Db        342 TLSLYKSGALDEAAAYQSRDYYNFPLALAGPPPPPPPPHPHARIKLENPLDYGSAWAAAA 401

Qy        405 AQCRYGDLASLHGAGAAGPSSGSPSATTSSSWHTLFTAEEGQLYGPCGGSGGGSAGDG-- 462
              |||||||||||||||||| ||||||  |||||||||||||||||||||| |||  | |
Db        402 AQCRYGDLASLHGAGAAGPGSGSPSAAASSSWHTLFTAEEGQLYGPCGGGGGGGGGGGGG 461

Qy        463 -------------GSVAPYGYTRPPQGLAGQEGDFPPPDVWYPGGVVSRVPFPSPSCVKS 509
                          |:|||||||||||||||| ||  |||||||:|||||:|||:||||
Db        462 GGGGGGGGGGGEAGAVAPYGYTRPPQGLAGQESDFTAPDVWYPGGMVSRVPYPSPTCVKS 521

Qy        510 EMGSWMESYSGPYGDMRLETARDHVLPIDYYFPPQKTCLICGDEASGCHYGALTCGSCKV 569
              ||| ||:||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        522 EMGPWMDSYSGPYGDMRLETARDHVLPIDYYFPPQKTCLICGDEASGCHYGALTCGSCKV 581

Qy        570 FFKRAAEGKQKYLCASRNDCTIDKFRRKNCPSCRLRKCYEAGMTLGARKLKKLGNLKLQE 629
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Db        582 FFKRAAEGKQKYLCASRNDCTIDKFRRKNCPSCRLRKCYEAGMTLGARKLKKLGNLKLQE 641

Qy        630 EGEASNVTSPTEEPTQKLTVSHIEGYECQPIFLNVLEAIEPGVVCAGHDNNQPDSFAALL 689
              |||||: |||||| ||||||||||||||||||||||||||||||||||||||||||||||
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Qy        690 SSLNELGERQLVHVVKWAKALPGFRNLHVDDQMAVIQYSWMGLMVFAMGWRSFTNVNSRM 749
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Qy        750 LYFAPDLVFNEYRMHKSRMYSQCVRMRHLSQEFGWLQITPQEFLCMKALLLFSIIPVDGL 809
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Qy        810 KNQKFFDELRMNYIKELDRIIACKRKNPTSCSRRFYQLTKLLDSVQPIARELHQFTFDLL 869
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
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Qy        870 IKSHMVSVDFPEMMAEIISVQVPKILSGKVKPIYFHTQ 907
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RESULT 2
A34721
androgen receptor A - human
C;Species: Homo sapiens (man)
C;Date: 31-Mar-1991 #sequence_revision 31-Mar-1991 #text_change 12-Sep-1997
C;Accession: A34721
R;Govindan, M.V.
Mol. Endocrinol. 4, 417-427, 1990
A;Title: Specific region in hormone binding domain is essential for hormone binding and trans-activation by human androgen receptor.
A;Reference number: A34721; MUID:90258935; PMID:2342476
A;Accession: A34721
A;Molecule type: mRNA
A;Residues: 1-910 <GOV>
C;Superfamily: unassigned erbA-related proteins; erbA transforming protein homology
C;Keywords: zinc finger
F;548-806/Domain: erbA transforming protein homology <ERBA>
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Qy          1 MEVQLGLGRVYPRPPSKTYRGAFQNLFQSVREVIQNPGPRHPEAVSAAPPGAHL------ 54
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Db          1 MEVQLGLGRVYPRPPSKTYRGAFQNLFQSVREVIQNPGPRHPEAASAAPPGASLLLLQQQ 60

Qy         55 -------QQQQQQQQQQETSPRQQQQQQQGDDGSPQAQSRGPTGYLALDEEQQPSQQRSA 107
                     ||||||||||||||| |||||||:||||||  ||||||| ||||||||| :||
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Qy        108 SKGHPESACVPEPGVTSATGKGLQQQQPAPPDENDSAAPSTLSLLGPTFPGLSSCSTDLK 167
               : |||  ||||||   |  ||| || ||||||:|||||||||| |||||||||| |||
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Qy        168 DILSEAGTMQLLQQQRQQQQQQQQQQQQQQQQQQQQEVVSEGSSSGRAREAAGASTSSKDS 227
              |||||| |||||                  |||||| |||||||||||||:|| |||||:
Db        180 DILSEASTMQLL-----------------QQQQQEAVSEGSSSGRAREASGAPTSSKDN 221

Qy        228 YLGGSSTISDSAKELCKAVSVSMGLGVEALEHLSPGEQLRGDCMYAPLLGGPPAVR--PC 285
              ||||:|||||:||||||||||||||||||||||||||||||||||||||||| |||||  ||
Db        222 YLGGTSTISDNAKELCKAVSVSMGLGVEALEHLSPGEQLRGDCMYAPLLGVPPAVRPTPC 281

Qy        286 APLAECKGSLLDDGPGKGTEETAEYSPFKAGYAKGLDGDSLGCSSSSEAGGSGTLEMPST 345
              |||||||||||||  || ||:|||||||| || |||:|:||||| |: || |||||:|||
Db        282 APLAECKGSLLDDSAGKSTEDTAEYSPFKGGYTKGLEGESLGCSGSAAAGSSGTLELPST 341

Qy        346 LSLYKSGALDEAAAYQSRDYYNFPLSLGGPPPHPPPPHPHTRIKLENPLDYGSAWAAAAA 405
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Qy        406 QCRYGDLASLHGAGAAGPSSGSPSATTSSSWHTLFTAEEGQLYGPCGGSGGGSAGDG--- 462
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Qy        463 ----GSVAPYGYTRPPQGLAGQEGDFPPPDVWYPGGVVSRVPFPSPSCVKSEMGSWMESY 518
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